1128-05-162   **Laura Escobar*** (`lescobar@illinois.edu`), Urbana, IL 61801, and **Oliver Pechenik**, **Bridget Eileen Tenner** and **Alexander Yong**. *Rhombic tilings and Bott-Samelson varieties.*

Elnitsky gave an elegant bijection between rhombic tilings of 2n-gons and commutation classes of reduced words in the symmetric group on n letters. We explain a natural connection between Elnitsky's and Magyar's construction of the Bott-Samelson resolution of Schubert varieties. This suggests using tilings to encapsulate Bott-Samelson data and indicates a geometric perspective on Elnitsky's combinatorics. We also extend this construction by assigning desingularizations to the zonotopal tilings considered by Tenner. (Received February 24, 2017)